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DEPARTMENT OF CIVIL ENGINEERING

JNANA BHARATHI
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BUB/CTE/2017-18/

Date: 21-10-2017

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to roads and drains at Akshaya Nagara Chitra Layout Chikkadinne and other Areas in Ward No.03}

Ref: Letter No.Testing/BUB/2017-18, dated 19-10-2017

Sample supplied to lab by: M/s Aishwarya Infrastructure and Developers.
Bangalore.

Report required for: Assistant Executive Engineer,
Yelahanka New Town Sub-Division,
BBMP, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	100.00	100
45.00	96.80	95-100
26.50	---	-
22.40	73.50	60-80
11.20	47.30	40-60
4.75	33.80	25-40
2.36	25.20	15-30
0.600	16.50	8-22
0.075	4.10	0-8

*As Furnished by Client

The Results relate only to the items tested.

AE W3 21/10

21/10/17

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BUB/CTE/2017-18/

Date: 24-10-2017

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to roads and drains at Akshaya Nagara Chitra Layout Chikkadinne and other Areas in Ward No.03}

Ref: Letter No.Testing/BUB/2017-18, dated 23-10-2017

Sample supplied to lab by: M/s Aishwarya Infrastructure and Developers. Bangalore.

Report required for: Assistant Executive Engineer, Yelahanka New Town Sub-Division, BBMP, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	**100.00**	100
45.00	**97.30**	95-100
26.50	---	-
22.40	**75.10**	60-80
11.20	**49.30**	40-60
4.75	**34.90**	25-40
2.36	**24.30**	15-30
0.600	**17.20**	8-22
0.075	**4.50**	0-8

*As Furnished by Client

The Results relate only to the items tested.

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24/10

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BUB/CTE/2017-18/

Date: 25-10-2017

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to roads and drains at Akshaya Nagara Chitra Layout Chikkadinne and other Areas in Ward No.03}

Ref: Letter No.Testing/BUB/2017-18, dated 24-10-2017

Sample supplied to lab by: M/s Aishwarya Infrastructure and Developers. Bangalore.

Report required for: Assistant Executive Engineer, Yelahanka New Town Sub-Division, BBMP, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	**100.00**	100
45.00	**98.20**	95-100
26.50	**---**	-
22.40	**74.60**	60-80
11.20	**46.30**	40-60
4.75	**36.10**	25-40
2.36	**23.20**	15-30
0.600	**18.00**	8-22
0.075	**4.90**	0-8

*As Furnished by Client

The Results relate only to the items tested.

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25/10/2018

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BUB/CTE/2017-18/

Date: 26-10-2017

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to roads and drains at Akshaya Nagara Chitra Layout Chikkadinne and other Areas in Ward No.03}
Ref: Letter No.Testing/BUB/2017-18, dated 25-10-2017
Sample supplied to lab by: M/s Aishwarya Infrastructure and Developers. Bangalore.
Report required for: Assistant Executive Engineer, Yelahanka New Town Sub-Division, BBMP, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	100.00	100
45.00	98.40	95-100
26.50	---	-
22.40	72.90	60-80
11.20	45.90	40-60
4.75	35.50	25-40
2.36	26.20	15-30
0.600	19.10	8-22
0.075	4.70	0-8

*As Furnished by Client

The Results relate only to the items tested.

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BUB/CTE/2017-18/

Date: 27-10-2017

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to roads and drains at Akshaya Nagara Chitra Layout Chikkadinne and other Areas in Ward No.03}
Ref: Letter No.Testing/BUB/2017-18, dated 26-10-2017
Sample supplied to lab by: M/s Aishwarya Infrastructure and Developers. Bangalore.
Report required for: Assistant Executive Engineer, Yelahanka New Town Sub-Division, BBMP, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	100.00	100
45.00	96.80	95-100
26.50	---	-
22.40	74.90	60-80
11.20	49.60	40-60
4.75	35.70	25-40
2.36	23.00	15-30
0.600	17.50	8-22
0.075	5.50	0-8

*As Furnished by Client

The Results relate only to the items tested.

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BUB/CTE/2017-18/

Date: 28-10-2017

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to roads and drains at Akshaya Nagara Chitra Layout Chikkadinne and other Areas in Ward No.03}
Ref: Letter No.Testing/BUB/2017-18, dated 27-10-2017
Sample supplied to lab by: M/s Aishwarya Infrastructure and Developers. Bangalore.
Report required for: Assistant Executive Engineer, Yelahanka New Town Sub-Division, BBMP, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	**100.00**	100
45.00	**98.30**	95-100
26.50	**---**	-
22.40	**72.00**	60-80
11.20	**47.30**	40-60
4.75	**35.80**	25-40
2.36	**24.90**	15-30
0.600	**19.50**	8-22
0.075	**5.30**	0-8

*As Furnished by Client
The Results relate only to the items tested.

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BUB/CTE/2017-18/

Date: 30-10-2017

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to roads and drains at Akshaya Nagara Chitra Layout Chikkadinne and other Areas in Ward No.03}
Ref: Letter No.Testing/BUB/2017-18, dated 28-10-2017
Sample supplied to lab by: M/s Aishwarya Infrastructure and Developers. Bangalore.
Report required for: Assistant Executive Engineer, Yelahanka New Town Sub-Division, BBMP, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	**100.00**	100
45.00	**97.70**	95-100
26.50	**---**	-
22.40	**74.30**	60-80
11.20	**48.60**	40-60
4.75	**35.40**	25-40
2.36	**24.60**	15-30
0.600	**18.90**	8-22
0.075	**4.20**	0-8

*As Furnished by Client
The Results relate only to the items tested.

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BUB/CTE/2017-18/

Date: 31-10-2017

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to roads and drains at Akshaya Nagara Chitra Layout Chikkadinne and other Areas in Ward No.03}
Ref: Letter No.Testing/BUB/2017-18, dated 28-10-2017
Sample supplied to lab by: M/s Aishwarya Infrastructure and Developers. Bangalore.
Report required for: Assistant Executive Engineer, Yelahanka New Town Sub-Division, BBMP, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53.00	100.00	100
45.00	97.10	95-100
26.50	---	-
22.40	74.00	60-80
11.20	48.60	40-60
4.75	35.00	25-40
2.36	24.00	15-30
0.600	18.50	8-22
0.075	5.10	0-8

*As Furnished by Client

The Results relate only to the items tested.

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BUB/CTE/2017-18/

Date: 17-11-2017

TEST REPORT ON BITUMINOUS MIXES

Sub: Testing of DGBM Mix Sample.
{Project*: Improvements to roads and drains at Akshaya Nagara Chitra Layout Chikkadinne and other Areas in Ward No.03}
Ref: Letter No.Testing/BUB/2017-18, dated 15-11-2017
Sample supplied to lab by: M/s Aishwarya Infrastructure and Developers. Bangalore.
Report required for: Assistant Executive Engineer, Yelahanka New Town Sub-Division BBMP, Bangalore.

TABLE 12 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2007)
1	Flakiness & Elongation Index	01	24.30%	Not more than 30 %
2	Impact Value	----,,----	25.10 %	Not more then 24.00 % for BC Not more then 27.00 % for DBM Not more then 30.00 % for BM/WMM
3	Water absorption	----,,----	0.40%	Not more than 1.0 %
4	Stripping test. (Coating and stripping of Bitumen aggregate mixtures)	----,,----	97.40 %	Minimum retained coating 95.0 %

*As Furnished by Client
The Results relate only to the items tested.

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BUB/CTE/2017-18/

Date: 20-11-2017

TEST REPORT ON BITUMINOUS MIXES
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DGBM Mix Sample.
{Project*: Improvements to roads and drains at Akshaya Nagara Chitra Layout Chikkadinne and other Areas in Ward No.03}

Ref: Letter No.Testing/BUB/2017-18, dated 18-11-2017

Sample supplied to lab by: M/s Aishwarya Infrastructure and Developers. Bangalore.

Report required for: Assistant Executive Engineer, Yelahanka New Town Sub-Division BBMP, Bangalore.

1. Type of Construction: **Bituminous Macadam.**

TEST RESULTS:

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.55 %**
2. **Gradation Test**

IS Sieve Designation, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Desired gradation for 50-75mm thick ,as per Table 500-4 of M.o.R.T.H Specifications-IV Revision-2001
26.5	100.00	100
19	95.50	90-100
13.2	83.00	56-88
4.75	16.00	16-36
2.36	15.00	4-19
0.300	4.50	2-10
0.075	2.60	0-8

*As Furnished by Client

The Results relate only to the items tested.

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BUB/CTE/2017-18/

Date: 22-11-2017

TEST REPORT ON BITUMINOUS MIXES
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DGBM Mix Sample.
{Project*: Improvements to roads and drains at Akshaya Nagara Chitra Layout Chikkadinne and other Areas in Ward No.03}

Ref: Letter No.Testing/BUB/2017-18, dated 20-11-2017

Sample supplied to lab by: M/s Aishwarya Infrastructure and Developers. Bangalore.

Report required for: Assistant Executive Engineer, Yelahanka New Town Sub-Division BBMP, Bangalore.

1. Type of Construction: **Bituminous Macadam**.

TEST RESULTS:

2. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.54 %**
2. **Gradation Test**

IS Sieve Designation, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Desired gradation for 50-75mm thick ,as per Table 500-4 of M.o.R.T.H Specifications-IV Revision-2001
26.5	**100.00**	100
19	**96.40**	90-100
13.2	**84.30**	56-88
4.75	**18.50**	16-36
2.36	**17.00**	4-19
0.300	**4.90**	2-10
0.075	**3.60**	0-8

*As Furnished by Client

The Results relate only to the items tested.

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Date: 09-12-2017

TEST REPORT ON BITUMINOUS MIXES

Sub: Testing of BC Mix Sample.
{Project*: Improvements to roads and drains at Akshaya Nagara Chitra Layout Chikkadinne and other Areas in Ward No.03}
Ref: Letter No.Testing/BUB/2017-18, dated 06-12-2017
Sample supplied to lab by: M/s Aishwarya Infrastructure and Developers. Bangalore.
Report required for: Assistant Executive Engineer, Yelahanka New Town Sub-Division BBMP, Bangalore.

TABLE 12 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2007)
1	Flakiness & Elongation Index	01	24.40%	Not more than 30 %
2	Impact Value	----,,----	22.40 %	Not more then 24.00 % for BC Not more then 27.00 % for DBM Not more then 30.00 % for BM/WMM
3	Water absorption	----,,----	0.42%	Not more than 1.0 %
4	Stripping test. (Coating and stripping of Bitumen aggregate mixtures)	----,,----	98.10 %	Minimum retained coating 95.0 %

*As Furnished by Client
The Results relate only to the items tested.

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Date: 11-12-2017

TEST REPORT ON BITUMINOUS MIXES
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC Mix Sample.
{Project*: Improvements to roads and drains at Akshaya Nagara Chitra Layout Chikkadinne and other Areas in Ward No.03}

Ref: Letter No.Testing/BUB/2017-18, dated 10-12-2017

Sample supplied to lab by: M/s Aishwarya Infrastructure and Developers. Contractor Bangalore.

Report required for: Assistant Executive Engineer,
Yelahanka New Town Sub-Division BBMP, Bangalore.

A.Type of Construction : **Bituminous Concrete(40mm thick).**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = 6.05 %
2. **Gradation Test**

TABLE 1.1

IS Sieve Designation	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-18 of MORTH Specfications-2001 BC (Grading – 2)
19 mm	100.00	100
13.20 mm	93.50	79 - 100
9.50 mm	82.00	70 - 88
4.75 mm	66.00	53 - 71
2.36 mm	54.50	42 - 58
1.18 mm	41.50	34 - 48
0.6 mm	32.50	26 - 38
0.3 mm	18.00	18 - 28
0.15 mm	12.00	12 - 20
0.075 mm	6.10	4 - 10

*As Furnished by Client

The Results relate only to the items tested. **Page No.1/1**

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BUB/CTE/2017-18/

Date: 12-12-2017

TEST REPORT ON BITUMINOUS MIXES
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC Mix Sample.
{Project*: Improvements to roads and drains at Akshaya Nagara Chitra Layout Chikkadinne and other Areas in Ward No.03}

Ref: Letter No.Testing/BUB/2017-18, dated 11-12-2017

Sample supplied to lab by: M/s Aishwarya Infrastructure and Developers. Contractor Bangalore.

Report required for: Assistant Executive Engineer,
Yelahanka New Town Sub-Division BBMP, Bangalore.

A.Type of Construction : **Bituminous Concrete(40mm thick).**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = 6.04 %

2. **Gradation Test**

TABLE 1.1

IS Sieve Designation	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-18 of MORTH Specfications-2001 BC (Grading – 2)
19 mm	100.00	100
13.20 mm	94.30	79 - 100
9.50 mm	84.20	70 - 88
4.75 mm	65.80	53 - 71
2.36 mm	55.50	42 - 58
1.18 mm	42.60	34 - 48
0.6 mm	33.50	26 - 38
0.3 mm	19.20	18 - 28
0.15 mm	13.50	12 - 20
0.075 mm	5.80	4 - 10

*As Furnished by Client

The Results relate only to the items tested. **Page No.1/1**

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